

Appl. No. 09/994,709
Amendment dated: November 6, 2003
Reply to OA of: August 25, 2003

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). A rewritable optical information recording medium comprising, from bottom to top:

a substrate, which is made from glass plate or plastic material film;

a lower dielectric layer, which is made from a material selected from the group consisting of SiN, AlN, Ta₂O₅, ZnS, SiO₂, Al₂O₃, and ZnS/SiO₂ composite, and has a thickness of 600 to 2000 Å;

a recording layer, which is formed on said substrate and has the following composition:



wherein A is gold or silver; B is Sb or Bi; C is Te or Se; M is an element selected from the group consisting of Ti, Zr, Hf, V, Nb, Ta, Mg, W, Mo, B, N, C, P and Si; $0 < a < 13.0$; $10 < b < 87.0$; $8.0 < c \leq 60$; $0 < d < 30.0$; $0 \leq e \leq 8$; and $a+b+c+d+e=100$ atom%, and has a thickness of 50 to 600 Å; and

a first upper dielectric layer, which is formed on said recording layer, made from a material selected from the group consisting of SiN, AlN, Ta₂O₅, ZnS, SiO₂, or Al₂O₃, and has a thickness of 50 to 500 Å;

a second upper dielectric layer, which is formed on said recording layer, made from a material selected from the group consisting of SiN, AlN, Ta₂O₅, ZnS, SiO₂, or Al₂O₃, and has a thickness of 50 to 500 Å; and

a reflective layer, which is laminated on said recording layer and made from a material selected from the group consisting of gold, silver, copper, aluminum and alloys thereof and has a thickness of 1500 Å to 4000 Å.

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Claims 2-3(canceled).

4(original). The rewritable optical information recording medium according to claim ~~[[3]]~~ 1, wherein the upper and lower dielectric layers are made from a material of ZnS-SiO₂ with ZnS in an amount of 70-90 mole%.

Claim 5(canceled).

6(currently amended). The rewritable optical information recording medium according to claim 1 further comprising a protective layer located on the recording layer or on the reflecting layer.

7(original). The rewritable optical information recording medium according to claim 6, wherein the protective layer is made from a UV-curable resin.

Claim 8(canceled).

9(original). The rewritable optical information recording medium according to claim 1, wherein the recording layer, the upper dielectric ~~[[layer]]~~ layers, the lower dielectric layer, and the reflective layer are laminated on the substrate by sputtering methods.

10(new). The rewritable optical information recording medium according to claim 1, wherein the first and second upper dielectric layers are made from the same material and thus combined as one layer having a thickness of 50 to 1000 Å.